

AO<sub>2</sub>

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TI Substrates with titanium dioxide films having  
photocatalytic activity

IN Takahama, Koichi; Kishimoto, Hirotsugu; Nakagawa, Takaharu; Deki,  
Shigehito; Hashimoto, Noboru

PA Matsushita Electric Works, Ltd., Japan

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DT Patent

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IC ICM C03C-017/00

ICS C03C-017/25; C01G-023/053; B01J-037/02

CC 57-1 (Ceramics)

AB The substrates are obtained by: depositing TiO<sub>2</sub> in a film form on a  
surface of a substrate (e.g., glass) by contacting the substrate  
with a reaction soln. contg. ammonium titanium fluoride, water and  
an additive which shifts the following equil. reaction:  
 $(\text{NH}_4)_2\text{TiF}_6 + 2\text{H}_2\text{O} \rightleftharpoons \text{TiO}_2 + 4\text{HF} + 2\text{NH}_4\text{F}$  toward a right side, and  
calcining the deposited TiO<sub>2</sub> film.

ST substrate titania coating photocatalytic activity

IT Coating process

Coatings

(substrates with titanium dioxide films  
having photocatalytic activity )

IT Glass substrates

RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)

(substrates with titanium dioxide films  
having photocatalytic activity )

IT 13463-67-7, Titanium oxide ( TiO<sub>2</sub> ), processes

RL: PEP (Physical, engineering or chemical process); PRP

(Properties); TEM (Technical or engineered material use); PROC

(Process); USES (Uses)

(substrates with titanium dioxide films  
having photocatalytic activity )